

KHANLAROVA, A.G.; MELIKZADE, M.M.; FARADZIEV, Kh.F.

Interrelation between the protective film of additive AzNII-7 and the products of aging of lubricants studied by the tracer method. Azerb. khim. zhur. no.4:171-176 '63.
(MIRA 17:2)

L 23788-66

EWT(d) IJP(c)

ACC NR: AP6005763

SOURCE CODE: UR/0280/65/000/005/0093/0102

AUTHOR: Faradzhev, R. G. (Moscow)36
34

ORG: none

16
13TITLE: Analytical methods of calculating the processes in linear sequential machines

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 5, 1965, 93-102

TOPIC TAGS: sequential machine, mathematic analysis, linear system, linear logic, computer calculation

ABSTRACT: The author solves the problem of the calculation of the processes in linear sequential machines (LSM) employing operations and numerical values determined in the corresponding Galois finite field. It is assumed that $p_0 = 2$ (p_0 is the characteristic of the Galois field) and the characteristic polynomial of the LSM is either separably irreducible over GF(2) (Galois field), or is reducible, but has a nonrecurring multiplier. The results obtained may be quite easily extended to an LSM in which addition and multiplication of any simple modulus p_0 is performed, as well as to the case of recurring multipliers in the characteristic polynomial. In conclusion, author expresses his gratitude to Ya. Z. Tsipkin for the statement of the problem and for numerous discussions of questions pertaining to this work, as well as to

Card 1/2

L 23788-66

ACC NR: AP6005763

I. V. Pyshkin and L. Yu. Askerova for useful advice and assistance in the execution of this work. Orig. art. has: 2 tables and 34 formulas.

SUB CODE: 09, 12 / SUBM DATE: 02Jun64 / ORIG REF: 006 / OTH REF: 010

Card 2/2 JV

L 06108-67

ACC NR: AP6016134

SOURCE CODE: UR/0103/66/000/005/0050/0055

37
B

AUTHOR: Faradzhev, R. G. (Moscow)

ORG: none

TITLE: A spectral approach to sequential machine problems

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 50-55

TOPIC TAGS: signal coding, Boolean function, Fourier analysis, switching circuit

ABSTRACT: The spectral approach used in the analysis of analog and digital systems is extended to problems in the theory of sequential machines such as switching circuits, multicycle coding circuits, and modular sequential networks. It is shown that a periodic lattice Boolean function can be in the form of a Fourier expansion of an ordinary periodic function of a continuous and discrete variable. An explicit expression for the expansion coefficients is derived. The authors thank Ya. Z. Tsypkin for posing the problem and directing the work on it and R. R. Varshamov for valuable comments which considerably improved the content of the article. Orig. art. has: 21 formulas.

SUB CODE: ~~12,09~~/

SUBM DATE: 30Jul65/

ORIG REF: 004/

OTH REF: 003

UDC: 62-504.2 : 512.932

Card 1/1 *fdh*

L 17829-66 EWT(d)/T IJP(c)
ACC NR: AP6004386

SOURCE CODE: UR/0020/66/166/003/0570/0573

AUTHOR: Tsyplkin, Ya. Z.; Faradzhev, R. G.

ORG: Institute of Automation and Telemechanics (Institut avtomatiki i
telemekhaniki)

TITLE: The Laplace-Galois transformation in the theory of sequential machines

SOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 570-573

TOPIC TAGS: Boolean function, Laplace transform circuit theory, automaton

ABSTRACT: D. A. Huffman (IRE Trans. on Circuit Theory, CT-2, No 3, 1956) introduced in recent years methods for the analysis and synthesis of sequential machines which are analogous to the ones used in the theory of circuits. The present paper introduces the concepts of Boolean lattice functions taking values from the finite Galois field and of their discrete Laplace transformation (i.e., the Laplace-Galois transformation). This leads to the development of expressions which establish a theory of sequential machines, completely analogous to the theory of pulsed systems (Ya. Z. Tsyplkin, Teoriya lineynykh impul'snykh sistem, M., 1963). Thus, the Laplace-Galois transformation plays in sequential machine theory the same role as the ordinary and discrete Laplace transformation in the

UDC: 519.95

L 17829-66
ACC NR: AP6004386

theory of pulsed and continuous circuits. These expressions are then applied to the class of linear sequential machines in which all operations are reduced to delays, exclusions, and multiplications by binary numbers. The paper was presented by Academician B. N. Petrov, 6 May 65. Orig. art. has: 16 formulas and 1 table.

SUB CODE: 12, 13 / SUBM DATE: 29Apr65 / ORIG REF: 003 / OTH REF: 007

Card 2/2

SEID-RZA, M.K. (Baku); MOVSUMOV, A.A. (Baku); FARADZHEV, T.A. (Baku)

Possibility of a spontaneous hydraulic rupture of layers in
lowering casings. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr no.1:
182-184 Ja-F '62. (MIRA 15:3)
(Oil well drilling)

SEID-RZA, M.K.; SADYKHOV, B.O.; FARADZHEV, T.G.

Spontaneous hydraulic fracturing in flushing and cementing casing
columns. Izv. vys. ucheb. zav.; neft' i gaz 4 no.12:55-60 '61.
(MIRA 16:12)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova i
Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobysti
nefti.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

FARADZHEV, T.G.; ASKEROV, F.A.

Plasticity of clay rocks. Azerb. neft. khoz. 40 no.6:17-18 Je '61.
(MIRA 14:8)

(Clay)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

SEID-RZA, M.K.; MOVSUMOV, A.A.; FARADZHEV, T.G.

Mechanism of flushing a well in the area of the turtodrill spindle.
Azerb. neft. khoz. 40 no.10:18-19 O '61. (MIRA 15:3)
(Turbodrills)

MOVSUMOV, A.A.; FARADZHEV, T.G.; KARASIK, G.Ye.

Features of bottom hole scavenging in drilling under complex
conditions. Azerb. neft. khoz. 40 no.5:13-16 My '61.
(MIRA 16:12)

SEID-RZA, M.K.; MOVSUMOV, A.A.; FARADZHEV, T.G.

Hydrodynamic pressure in setting casing "tails." Azerb.neft.khoz.
40 no.8:14-18 Ag '61. (MIRA 15:2)
(Oil well casing)

AKHMEDOV, A.A.; FARADZHEV, T.G.; NAZIROV, S.A.

Determining the practical depth for using superturbodrill
whipstocks taking into consideration the effective disinte-
gration of rocks on the bottom and the full realization of
turbodrill power. Izv. vys. ucheb. zav.; neft' i gaz 5 no.10:
27-33 '62. (MIRA 17:8)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova
i AzNIIburneft'.

SEID-RZA, M.K.; NAZIROV, S.A.; FARADZHEV, T.G.

Hydrodynamic bases for selecting the diameter of turbodrills.
Neft. khoz. 40 no.6:19-22 Je '62. (MIRA 15:6)
(Turbodrills)

SKID-EZA, M.K.; FARADZHEV, T.G.

Hydrodynamic bases for determining the permissible speed of
borehole processing in well drilling. Azerb.neft.khoz. 41
no.4:13-15 Ap '62. (MIRA 16:2)
(Oil well drilling fluids)

SHAMSIYEV, A.A.; FARADZHEV, T.G.

Experimental study of clay rocks on well walls. Azerb.neft.
khoz. 41 no.5:14-17 My '62. (MIRA 16:2)
(Oil wells--Testing) (Clay--Testing)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

MOVSUMOV, A.A.; DZHILIL-ZADE, G.N.; PARADZHEV, T.G.

Mechanism of cleaning the cutting elements of bits from borings.
Azerb.neft.khoz. 41 no.7+20-21, 33 Jl '62. (MIRA 16:2)
(Borings)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARAEZHEV, T.G.; NAZIROV, S.A.

Determination of the effective depth in turbodrilling based on
the mechanical properties of rocks. Azerb. neft. khoz. 41
no.11:14-19 N '62. (MIRA 16:2)

(Oil well drilling)
(Turbodrills)

FARADZHEV, Tərlan Guseyn; MAKHMUDOV, Dzhalal Museib; GUSEYNOV,
Arif Allakhyar

[Technology of boring viscous and plastic rock] [Tekhnologiya
bureniiia viazkikh i plasticheskikh porod] Baky, Azerneshr,
1963. 203 p. [In Azerbaijani] (MIRA 17:5)

SEID-RZA, M.K.; FARADZHEV, T.G.; FATALIYEV, M.D.; TSELOVAL'NIKOV, V.F.; GUSAROV,
N.V.

Causes of contractions of the hole and cave-ins in wells being
drilled. Buranis no.5:13-16 '64. (MIRA 18:5)

1. AzNIIburneft'.

SEID-RZA, M.K.; FATALIYEV, M.D.; TSELOVAL'NIKOV, V.F.; ALIYEV, M.K.; FARADZH EV,
T.G.

Stability of walls in deep wells during drilling. Burenie no.8:3-6
'64. (MIRA 18:5)

1. AzNIlburneft'.

BAGIROV, A Yu.; KARASHARLY, A.G.; FARADZHEV, T.G.; FATALIYEV, M.P.;
SHAMKHALOV, D.A.

Determining the optimal amount of drilling fluid to ensure the
thorough cleaning of the well bottom. Izv. vys. ucheb. zav.;
naft' i gaz 8 no.1:23-27 '65.

(MIRA 18:2)

I. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova
i "AzMIILburneft".

FARADZHEV, V.A.

Principal tectonic characteristics of the Aksu-Kashgar area in
the southern Tien Shan (Chinese People's Republic). Geol. sbor.
[Lvov] no.5/6:346-366 '58. (MIRA 12:10)

1. Ministerstvo geologii i okhrany nedor SSSR, Moskva.
(Tien Shan--Geology, Structural)

KAZ'MIN, V.G.; FARADZHEV, V.A.

Tectonic development of the Yarkand sector of Kunlun. Sov.
geol. 4 no.8:45-57 Ag '61. (MIRA 16:7)

1. Vsescyuznyy aerogeologicheskiy trest.
(Kunlun—Geology, Structural)

FARADZHEV, V.A.

New data on the Tiznab series of the Kunlun. Geol.sbor. [Lvov]
(MIRA 14:12)
no.7/8:329-334 '61.

1. Vsesoyuznyy aerogeologicheskiy trest, Moskva.
(Kunlun--Geology, Stratigraphic)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

KOZLOV, V. I., ROMIKAROV, V. P.; RAZVALYAYEV, A. V.; SUDIBIL-KOMRAT'YEV, Ye. D.;
ZHURAVLEV, V. A.

Cretaceous sediments of Syria. Biul. MOTP. Otd. geol. 40
no. 3; 57-68 May-Je '65. (MJRA 18:8)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

YARADZHEVA, F.S., aspirant.

Nasal melanoma. Vest.oto-rin. 15 no.4:82 J1-Ag '53.

(MLRA 6:9)

1. Klinika bolezney ukha, gorla i nosa TSentral'nogo instituta usovernenstvo-vaniya vrachey, Moscow.
(Nose--Tumors)

FARADZHEVA, F. S.

FARADZHEVA, F. S. -- "Clinical-Histological Parallels among Various Forms
of Chronic Inflammations of the Maxillary Sinus." Min Health USSR.
Central Inst for the Advanced Training of Physicians. Moscow, 1956.
(Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

DZHAVID, A.S.; FARADZHEVA, F.S.

Cases of anoma of the ear. Vest. otorin. 22 no. 3:92-94 My-Je
'60. (MIRA 13:10)
(EAR-TUMORS)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARADZHEVA, K.Ya.

Protection of the health of mothers and children in the Azerbaijanian
S.S.R. Azerb. med. zhur. no.4:66-72 Ap '60. (MIRA 14:5)
(AZERBAIJAN--WOMEN--HEALTH AND HYGIENE)
(AZERBAIJAN--CHILDREN--DISEASES AND HYGIENE)

PARADZHEVA, K.Ya.

Protecting the health of mothers and children in the Azerbaijan
S.S.R. Pediatriia 38 no.9:76-81 8 '60. (MIRA 13:12)

1. Iz Nauchno-issledovatel'skogo instituta okhrany materinstva
i detstva Azerbaydzhanskoy SSR (dir. - K.Ya. Paradzheva).
(AZERBAIJAN--MATERNAL AND CHILD WELFARE)

FARADZHEVA, K. Ya.

State of the peripheral blood in children at the kindergartens
in Baku. Azerb. med. zhur. 42 no. 10:62-69 O '65
(MIRA 19:1)

FARADZHEVA, S.R.
ALIYEV, G.A.; FARADZHEVA, S.R.

Distribution of brown forest soils in Azerbaijan [in Azerbaijani
with summary in Russian]. Dokl. AN Azerb. SSR 13 no.2:183-186 '57.
(Azerbaijan--Forest soils)

FARADZHEVA, S.B.

Brown soils developed from steppe soils under advancing forests in
Astrakhan-Bazar District. Izv.AN Aserb.SSR.Ser.biol.i med.nauk
no.1:107-115 '61. (MIRA 14:1)
(Astrakhan-Bazar District—Soils)

ALIYEV, G.A.; FARADZHEVA, S.B.; SALAMOV, G.A.

Soils of Kusary District. Izv. AN Azerb. SSSR. Ser.biol. i
med. nauk no. 12:59-73 '61. (MIRA 17:5)

FARADZHEVA, S.B.; ISMAYLOVA, F.M.

Mineralogical composition of some soils of the lesser Caucasus
developed from the eluvium of quartz prophyry. Izv. AN Azerb.
SSR. Ser. biol. nauk no.6:59-66 '64. (MIRA 18:6)

FARADZHEVA, Ye.D.; FEDOROV, A.F.

Investigating the fermentation processes in the preparation of
beer wort. Ferm. i spirit. prom. 31 no.6:10-13 '65. (MIRA 18:9)

1. Voronezhskiy tekhnologicheskiy institut.

FEDOROV, A.F.; TARARYKOV, G.M.; FARADZHEVA, Ye.D.; CHUVASHEVA, K.K.

Preparation of a submerged culture of *Aspergillus oryzae* for
brewing. Ferm. i spirit. prom. 31 no.7:15-17 '65.
(MIRA 18:11)

1. Voronezhskiy tekhnologicheskiy institut.

FARADZHYAN, S.V.

Modeling with electricity-conducting paper for the studying
the effect of the relief and surfaces of formations in the
method of electric profiling. Izv. AN Arm. SSR. Nauki o zem.
18 no. 3/4:145-147 '65. (MIRA 18:9)

1. Institut geofiziki i inzhenernoy seismologii AN Armyanskoy
SSR.

FARADZH-ZADE, A.

Problems in auditing state revenues. Fin.SSSR 18 no.7:40 J1 '57.
(MLRA 10:7)

1. Glavnnyy revizor Upravleniya gosdokhodov Ministerstva finansov
Azerbaydzhanskoy SSR.
(Internal revenue)

1. PROF. YEFENDIYEV, F.A. FARADZH-ZADE, A.G. ATAKISHIYEVA, F.A.
2. USSR (600)
3. Hemostatics
4. Citrate as a hemostatic agent in tubercular pulmonary hemorrhages and hemoptysis.
Probl. tub. No. 5, 1952.

9. Monthly List of Russian Acquisitions, Library of Congress, February, 1953. Unclassified

PARADZH-ZADE, A.G.

Comparative evaluation of the results of treatment with artificial pneumothorax in conjunction with antibacterial preparations and without them. Azerb. med. shur. no.2:89-92 F '59. (MIRA 12:3)

1. Iz respublikanskogo Nauchno-issledovatel'skogo instituta tuberkulez Minzdrava AzerSSR (direktor - kand. med. nauk A. D. Nurmamedov, nauchnyy rukovoditel' - prof. A.Ye. Ter-Gazarov).
(PNEUMOTHORAX) (ANTIBIOTICS)

L 62853-65 EWT(1)/EEC(m)/EWA(h) Feb

ACCESSION NR: AP5019063

UR/0286/65/000/01270089/0089
536.5.621.039.547

22

B

AUTHOR: Perel'shteyn, M. Ye.; Kiyasbeyli, A. Sh.; Faradzh-zade, I. G.; Dzhafarov, A. G.-o.

TITLE: Temperature transducer, Class 42, No. 172086

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 89

TOPIC TAGS: temperature transducer, temperature measurement, thermometer

ABSTRACT: This Author Certificate introduces a temperature transducer consisting of a copper or platinum resistance thermometer and a transformer in the form of a generator with inductive couplings, in which the transformer's core with windings has been placed in the housing of the resistance thermometer. By this arrangement operational stability in a wide temperature range and linearity of the frequency characteristics have been achieved. Orig. art. has: 1 figure. [AC]

ASSOCIATION: none

SUBMITTED: 15Mar63

NO REF SOV: 000

Card 1/1

ENCL: 00

SUB CODE:TDEE

OTHER: 000

ATD PRESS: 4056

LEBEDEV, Ye.P., dots.; CHIRSKIY, G.M., dots.; VALAKHANOVICH, A.I.;
FARAFALOV, G.Ya., red.; NIKOL'SKAYA, K.G., tekhn. red.

[Statistics of passenger transportation] Statistika perevozok
passazhirov; uchebnoe posobie po distsiplinam "Zheleznodorozh-
naya statistika" i "Osnovy statisticheskogo i bukhgalterskogo
ucheta na zheleznodorozhnom transporte" dlja studentov IV kur-
sa spetsial'nosti "Ekonomika i organizatsiya zheleznodorozhnogo
transporta" i V kursa spetsial'nosti "Ekspluatatsiya zheleznykh
dorog." Moskva, 1962. 21 p. (MIRA 15:12)

1. Moscow. Vsesoyuznyy zaochnyy institut inzhenerov zheleznodo-
rozhnogo transporta.

(Railroads--Passenger traffic) (Railroads--Statistics)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

PADCHENKO, V.D., kand.tekhn.nauk; FARAFONOV, A.V., inzh.

Protection of electric traction equipment at junction stations
in cases of the short circuiting of a.c. and d.c. contact
networks. Trudy TSNII MPS no. 190:71-97 '60. (MIRA 13:12)
(Electric railroads) (Electric protection)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARAFONOV, A.V., inzh.

High-voltage testing of the IaP-22 fuse block. Vest. TSNII MPS
20 no.2:54-56 '61.
(Electric fuses)

FARAFONOV, A.V., inzh.; IVANOV, V.P., inzh.

How to prevent faulty switching operation of the
AB-2/3 and AB-2/4 feeder switches. Elek. i tepl.
tiaga 6 no.10:15-16 O '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
zhelezodorozhного transporta Ministerstva putey
soobshcheniya.
(Electric cutouts—Electric equipment)
(Electric cutouts)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

FARAFONOV, A.V., inzh.; SHCHEGLOV, L.A., inzh.

Modernized type LK-300M linear contactor. Vest. TSNII MPS
21 no.1:19-22 '62.
(Electric contactors)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARAFONOV, A.V., inzh.

Two-stage disconnecting of short circuit currents by means
of rapid action switches. Vest.TSNII MPS 21 no.6:10-14
'62. (MIRA 15:9)
(Electric switchgear)

FARAFONOV, A.V., inzh.

Analysing the process of arc suppression in d.c.apparatus. Vest.TSNII MPS
22 no.1:28-33 '63. (MIR 16:4)
(Electric machinery--Direct current) (Electric arc)

PARAFONOV, A.V., inzh.

Experimental determination of the characteristics of a d.c.
arc with a potential of 3.3 kv. Trudy TSNII MPS no.250:95-108
'63. (MIRA 16:6)

(Electric discharges)
(Electric railroads—Electric equipment)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

RADCHENKO, V.D., kand. tekhn. nauk; RYKOV, I.I., kand. tekhn. nauk;
FARAFONOV, A.V., kand. tekhn. nauk

Calculation of the working resistance of the valve commutation
discharger. Vest. TSNII MPS 24 no.1:5-8 '65.
(MIRA 18:6)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

KUZNETSOV, B.; FARAFONOV, A.

IAnin's brigade is in front. Mashinostroitel' no.11:4-5 N '61.
(MIRA 14:11)
(Syzran--Machinery industry--Technological innovations)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

RADCHENKO, V.D., kand.tekhn.nauk; FARAFONOV, A.V., inzh.

Efficient protection of the auxiliary circuits of the rolling
stock of electric railroads. Elek.i tepl.tiaga 6 no.2:26-27
(MIRA 15:2)
F '62.
(Electric railroads--Rolling stock)

RADCHENKO, V.D.; kand. tekhn. nauk; FARAFONOV, A.V., inzh.; DOROSH, V.P., inzh.

Modernized rapid-action switch-off for d.c. trains. Elek. i
(MIRA 16:10)
tepl. tiaga 7 no.9:19-21 S '63.

FARAFONOV, D., inzh.; GORYAINOV, A.

Device for disassembling and assembling the track tensioning mechanism.
Tekh.v sel'khoz. 21 no.8:85-86 Ag '61. (MIRA 14:7)
(Crawler tractors—Maintenance and repair)

FARAFONOV, I. E.

M
V
Growth- and Heat-Stability of Silicon Iron with Spheroidal Graphite. I. E. Farafonov and Yu. G. Bobrov. (Litvinov Prototipov, 1980, pp. 91-94). (In Russian). The characteristics of high-silicon irons with spheroidal graphite were studied for the more common growth- and heat-resisting types. Three series of irons were used: irons containing 2.16-3.13% Si; irons with 3.61-6.29% Si, 1.73-3.64% Cr, and 17.88-20.84% Ni; high-silicon iron (31-33% Si). Irons inoculated with Mg and with various additions of Si were investigated. Microstructures of the irons are illustrated. Comparative data are presented for lamellar and spheroidal graphite irons. It is concluded that the properties of high-silicon iron with spheroidal graphite is as good as high-chromium and high-nickel irons.—e. x.

DT ①

FARAFONOV, I.I., gornyy inzh.

Efficient hole-boring conditions with use of a tooth-edge disk
roller bit. Izv. DGI 30 no.1:73-83 '57. (MIRA 11:3)
(Boring machinery)

FARAFONOV, I. I. Cand Tech Sci -- (diss) "Study of the drilling of holes by toothed-plate cutting chisels during mine prospecting operations." Mos, 1958
16 pp (Min of Higher Education USSR. Mos Geological Prospecting Inst im S. Ordzhonikidze), 110 copies (KL, 14-58, 114)

-77-

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

FARAFONOV, I.I.

Studying the electric rotary method when using disk cone bits for
boring horizontal holes. Trudy MGRI 32:9-21 '58. (MIRA 12:10)
(Boring)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARAFONOV, I.I.

Determining optimum method for drilling rotary holes. Izv. vys.
ucheb. zav.; geol. i razv. 2 no.6:110-116 Je '59 (MIRA 13:3)

1. Dnepropetrovskiy gornyy institut im. Artema.
(Shaft sinking)

FARAFONOV, I.I., kand.tekhn.nauk; VASIL'YEV, B.G., kand.tekhn.nauk

Results of testing hard-faced bits in combination drilling with
hydrodrills. Nauch.zap. Ukrniiproekta no.2:141-151 '60.
(MIRA 15:1)
(Boring machinery--Testing)

FARAFONOV, I.I., kand.tekhn.nauk

Using the method of isolines in evaluating the conditions for
rotary drilling. Nauch.zap. Ukrniiproekta no.3:64-68 '60.
(MIRA 14:12)
(Boring)

TSARITSYN, V.V., doktor tekhn.nauk; FARAFONOV, I.I., kand.tekhn.nauk;
SMIRNOV, A.G., inzh.

Comparative evaluation of rock-breaking methods in drilling
blastholes. Nauch.zap. Ukrniiiproekta no.3:42-57 '60. (MIRA 14:12)
(Boring)

FARAFONOV, I.I., kand.tekhn.nauk; SMIRNOV, A.G., inzh.

Efficiency of drilling blast holes with a roller bit in
open-pit workings. Nauch.zap.Ukrniiproekta no.5:151-156 :61.
(MIRA 15:7)
(Boring)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9

FARAFONOV, I.I., kand. tekhn. nauk, SEYFI, N.N., VAGANOV, L.Z.,
RUBARKH, V.M.

Percussion roller bit. Met. i gornorud. prom. no.3:60-61
My-Je '64. (MIRA 17x10)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420009-9"

FARAFANOV, I.I., kand. tekhn. nauk; SEYFI, R.N., inzh.; VAGANOV, L.I., inzh.;
RUEARKH, V.M., inzh.

New type of combination drilling bits. Gor. zhur. no.6:69-70
Je '64. (MIRA 17:11)

1. UkrNIigiproneft', Kiyev.

ZHMUDENKO, A.S., inzh.; FARAFONOV, I.I., kand.tekhn.nauk; KIYANITSA, G.I.,
inzh.; FILATOV, L.V., inzh.

Efficient use of bits in the boring of holes with an air drill
in granite quarries. Izv.vys.ucheb.zav.; gor.zhur. 7 no.12:38-
42 '64. (MIRA 18:2)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut (for
Zhmudenko). 2. Gosudarstvennyy nauchno-issledovatel'skiy i
proyektnyy institut ugol'noy, rudnoy, neftyanoy i gazovoy
promyshlennosti UkrSSR (for Farafonov, Kiyanitsa, Filatov).
Rekomendovana kafedroy tekhnologii i mekhanizatsii gornykh
rabot Kiyevskogo politekhnicheskogo instituta.

ACCESSION NR: AT4013936

S/2659/63/010/000/0116/0123

AUTHOR: Sy*reyshchikova, V. I.; Levitin, V. V.; Farafonov, K. K.

TITLE: Investigation of strengthening, creep and failure processes in austenite steel

SOURCE: ANSSSR* Institut metallurgii. Issledovaniya po zharoprovchnym splavam, v. 10, 1963, 116-123

TOPIC TAGS: steel strengthening, steel creep, steel failure, austenite steel, steel plastic deformation, polygonization

ABSTRACT: The process of failure under creep was previously investigated for nonferrous metals, but only a few analyses have been made of heterogeneous alloys. This paper describes the investigation of the strengthening phase of a complex austenite steel alloy and studies the plastic deformation and failure of this steel under creep conditions. The influence of grain size on heat resistance was also investigated. The testing procedure was carried out on an IP-4M machine. Ingots of 2.1 tons were fastened to rods 300 mm. in diameter. They were then hardened and tempered (850C for 10 hours, 700C for 20 hours, and 650C for 30 hours). High-temperature samples were cut from blanks with

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ACCESSION NR: AT4013936

different sized grains. The samples had a diameter of 10 mm and a working length of 100 mm at temperatures of 650C and 700C. Data on sample failure is tabulated. Samples containing relatively coarse grains (2-5mm) in a section with uniform grains (0, 15-0.25 mm) were the weakest. The strongest samples had sections with uniform grains of 0.2-1.0 mm. Finally X-ray studies of failure under creep revealed polygonization. Orig. art. has 3 figures and 2 tables.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 00

SUB CODE: MM

NO REF SOV: 007

OTHER: 001

Card 2/2

Kharkov, 1951.

Automatic telephone stations ATS-4; step-by-step system Moscow, Sov. radio library
po voprosam sviazi i radio, 1951. (Mic 53-108)

Collation of the original: 297 p.

Microfilm T-3

FARAFONOV, L. S.

USSR/ Electronics - Amplifiers

Card 1/1 Pub. 133 - 2/19

Authors : Farafonov, L. S., Chief, LONIIS (Leningrad Branch of the Research Institute for Communications) Laureate of the Stalin Prize; and Glikman, S. E., Senior Engineer of LONIIS

TITLE : Application of "non-differential" type amplifiers (also called "feedback" type amplifiers) in city telephone networks

Periodical : Vest. svyazi 1, 3 - 4, Jan 1955

Abstract : An analysis is made of the principles of non-differential type of amplifiers as set forth in a previous article by S. E. Glikman entitled, "Intermediate-Frequency Amplification Systems of Non-Differential Type" (Vest. svyazi 11, 1954). The value of amplification obtained with a non-differential type of amplifiers, for different cases of attenuation in telephone lines, is demonstrated, and recommendations are made for the practical application of these amplifiers in telephone networks. The desirable position of amplifiers in the network is indicated in respective block-diagrams. Graphs; diagrams.

Institution:

Submitted:

PARAFONOV, L.S., inshener.

Automatizing the telephone system in Sweden. Vest.sviashi 15 no.11:
31-32 N '55.
(Sweden--Telephone)

PARAFONOV, L.S., redaktor; ANDREYENKO, Z.D., redaktor; VEYNTRAUB, A.B.,
tekhnicheskiy redaktor

[New systems of automatic telephone stations; a collection of
translations] Novye sistemy avtomaticheskikh telefonnykh stantsii;
sbornik perevodnykh statei. Moskva, Gos. izd-vo lit-ry po voprosam
sviazi i radio, 1956. 97 p.
(Telephone, Automatic)

PARAFOV, L.S., inzhener.

"Standart-41" automatic telephone system. Vest.sviazi 16 no.2:
27-28 P '56. (MLRA 9:7)
(Sweden--Telephone, Automatic)

FARAFONOV, L.S., otvetstvennyy redaktor; ANDREYENKO, Z.D., redaktor;
KUTTERENKH, N.V., tekhnicheskiy redaktor.

[Swedish systems of automatic telephone stations, models A-204
and ARP; information manual] Svedskie sistemy ATS A-204 i ARP;
informatsionnyi sbornik. Moskva, Gos.izd-volit-ry po voprosam
sviazi i radio. 1957. 77 p. (MLRA 10:6)
(Telephone, Automatic)

LIVSHITS, Boris Samoylovich; NOVIKOV, Georgiy Arsen'yevich; FARAFONOV,
Leonid Stepanovich; GOLUBTSOV, I.Ye., otv.red.; LUZHETSKIY,
N.N., red.; MARKOCH, K.G., tekhn.red.

[Rural automatic telephone stations] Sel'skie avtomaticheskie
telefonnye stantsii. Moskva, Gos.izd-vo lit-ry po voprosam
sviazi i radio, 1958. 195 p. (MIRA 13:7)
(Telephone, Automatic)

KHARKEVICH, A.D.; ROGINSKIY, V.N.; OPOL'SKAYA, Ye.K.; LAZAREV, V.G.;
SHAPIRO, S.B.; GORYACHEV, V.A.; FARAFONOV, L.S., otv.red.;
BALAKIREV, A.F., red.; KARABILOVA, S.P., tekhn.red.

[Crossbar telephone substation; information collection]
Koordinatnaia telefonnaya podstantsiya; informatsionnyi
sbornik. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i
radio, 1959. 87 p. (MIRA 13:1)
(Telephone, Automatic)

PHASE I BOOK EXPLOITATION SOV/5399

Parafonov, Leonid Stepanovich

ATS rayonnogo tsentra; ATS 100/500 (The Automatic Telephone System of a Rayon Center; the 100/500 Automatic Telephone System) Moscow, Svyaz'izdat, 1960. 35 p. (Series: Lektsii dlya rabotnikov rayonnykh kontor svyazi). 14,200 copies printed.

Sponsoring Agency: Ministerstvo svyazi SSSR. Tekhnicheskoye upravleniye.

Resp. Ed.: B. I. Matyush; Ed.: M. M. Ryazantseva; Tech. Ed.: K. G. Markoch.

PURPOSE : This book is intended for technicians in the field of telephone communications.

COVERAGE: The book describes and gives the technical data on the ten-step automatic telephone system 100/500 Nos. This system is used for the automation of telephone communications of rayon centers and may also function as the central office of an intra-rayon telephone network. Block diagrams of rayon-center automatic

Card 1/3

The Automatic Telephone System (Cont.)

SOV/5399

offices are given and special features of their schematic diagrams examined. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

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3. Special Features of Automatic Telephone System 100/500 diagrams	11
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Card 2/3

FARAFONOV, L.S., inzh.

Trends in the development of automatic telephone exchange technology
in the present seven-year plan. Vest.sviazi 20 no.3:4-5 Mr '60.
(MIRA 13:6)

1. Nachal'nik Nauchno-issledovatel'skogo instituta
gorodskoy i sel'skoy telefonnoy svyazi Ministerstva svyazi SSSR.
(Telephone, Automatic)

KUCHERYAVYY, Ye.I.; PAVLOVSKIY, I.Ye.; POLYAK, P.Yu.; FARAFONOV, L.S.,
otv. red.; PETROVA, V.Ye., red.; DIKOV, V.N., tekhn. red.

[Group connection of telephone lines] Kollektivnoe vkluchenie tele-
fonnykh linii. Informatsionnyi sbornik. Moskva, Gos. izd-vo lit-ry
po voprosam sviazi i radio, 1961. 135 p. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefon-
noy sviazi Ministerstva sviazi SSSR (for Kucheryavyy, Pavlovskiy,
Polyak).

(Telephone lines)

PARAFONOV, L.S.; SERIKOV, A.G.; YULINA, A.V.; RODIONOVA, N.V.,
telegrafistka, udarnik kommunisticheskogo truda;
RASKATAYEVA, M.F.; BULYGIN, I.V.

We are discussing the project of the program of the CPSU.
Vest. sviazi 21 no.9:7-9 S '61. (MIRA 14:9)

1. Nachal'nik Nauchno-issledovatel'skogo instituta telefonnoy svyazi Ministerstva svyazi SSSR (for Farafonov).
2. Glavnyy inzhener Moskovskoy gorodskoy telefonnoy seti (for Serikov).
3. Rukovoditel' brigady kommunisticheskogo truda TSentral'nogo telegrafa SSSR (for Yulina).
4. TSentral'nyy telegraf SSSR (for Rodionova).
5. Rukovoditel' brigady kommunisticheskogo truda TSentral'nogo telegraфа SSSR (for Raskatayeva).
6. Glavnyy inzhener Kiyevskogo oblastnogo upravleniya svyazi (for Bulygin).

(Telecommunication)

FARAFONOV, Leonid Stepanovich; KUTASHOV, Pavel Dmitriyevich;
SEMELEV, Innokenty Innokent'yevich; FARAFONOV, L.S., otv.
red.; KIRILLOV, L.M., fed.; ROMANOVA, S.F., tekhn. red.

[Rural automatic telephone exchange with a capacity of 100
to 500; information manual] Sel'skaia ATS 100/500; informa-
tionsnyi sbornik. Moskva, Sviaz'izdat, 1962. 138 p.

(MIRA 15:9)

(Telephone, Automatic)

FARAFONOV, L.S., inzh.

New circuits for ganged switching-in of telephone apparatus. Vest.
sviazi 22 no.3:4-6 Mr '62. (MIRA 15:2)
(Telephone)

GRUSEVICH, S.I.; SHAPIRO, S.B.; YEFRETOVA, Ye.I.; BESKIND, A.A.;
~~FARAFONOV, L.S.~~; TERENT'YEV, V.N.; VASIL'YEVA, L.S.;
FARAFONOV, L.S., otv. red.; ULANOVSKAYA, N.M., red.;
ROMANOVA, S.F., tekhn. red.

[New equipment and operating techniques of automatic
telephone exchanges] Novaia tekhnika i metody ekspluatatsii
ATS; informatsionnyi sbornik. Moskva, Sviaz'izdat, 1963.
151 p.

(Telephone)

YULYABKO, V. (Volzhskiy Volgogradskoy obl.); SAKHANOV, Yu., inzh. (Volzhskiy Volgogradskoy obl.); DODONOV, P., inzh. (Volzhskiy Volgogradskoy obl.); FARAFONOV, M. (Volzhskiy Volgogradskoy obl.)

Eight and a half kopeck per ton. Izobr.i rats. no.5 (201):35
'63. (MIRA 16:7)
(Cement--Transportation)

✓ 3767. Some methods of using the activated a.c. arc for the determination of alkali and alkaline-earth elements [in natural waters]. T. F. Borovik, elements [in natural waters]. T. F. Borovik, Romanova, V. V. Kourlev, Yu. I. Kutsenko and M. M. Farafonov. *Izv Akad Nauk SSSR ser Fiz*, 1955, 19(2), 196-197. Ref. *Zhur. Khim.*, 1956 Abstr. No. 13,177.—For determination of Li (2×10^{-4} to 6×10^{-4} per cent.) and Sr (2.3×10^{-4} to 8×10^{-4} per cent.) in natural waters, CsNO₃ soln. (1.6 per cent.) is added in the ratio 2:1 as an internal standard; the solution is placed in a fulgurator and the activated a.c. arc spectrum is obtained. The line pairs Sr 4607.3 - Cs 4603.2 Å and Li 6707.8 - Cs 6723.3 Å are measured.

G. S. Smith

Inst. Neokhimii i analiticheskoy khimi im. V. I. Vernadskogo
akad. Nauk SSSR.

(Laser-spectrum analysis - Congressed)

FARAFONOV M.M.
AUTHORS: Zarinskiy, V. A., Farafonov, M. M., Zateyeva, V. V. 75-6-2/23
TITLE: High-Voltage Electrodialysis (Vysokovolt'nyy elektrodializ)
Communication number 1 - Separation of Contaminations from Silicon-
and Tungsten Acids (Soobshcheniye 1. Vydeniye primesey iz kremnem-
voy i volframovoy kislot).
PERIODICAL: Zhurnal Analiticheskoy Khimii, 1957, Vol. 12, Nr 6, pp. 677-683
(USSR).
ABSTRACT: The traces of Fe, Cu, Pb and Cd /0,01-0,001% can be isolated
quantitatively by applying high-voltage electrodialysis of SiO₂.
The electrodialyser has three chambers; the membranes consist of
cellophane. A separation of Bi, Sn and Sb cannot be achieved in a
quantitative way, since SiO₂ intensely adsorbs these ions. The ana-
lyses were carried out by means of the spectroscopic apparatus
I.S.P.-22. The separation of Pb, Cd, Bi, Sn and Sb, with a content
of 1,10⁻³ - 5,10⁻⁴ % takes place after 7 to 9 hours of electro-
dialysis in a quantitative way; the content of Sn, Sb and Bi decrea-
ses to a power of one; the quantitative separation of Sn and Sb of
WO₃ is possible with electrodialysis in concentrated acetic acid.

Card 1/2

High-Voltage Electrodialysis.
Communication number 1 - Separation of Contaminations from Silicon- and Tungsten Acids.

75-6-2/23

The incomplete separation of Sn, Sb and Bi of SiO_2 and WO_3 is caused by the easy hydrolizability of these elements in weak acid solutions. The complete separation of the contaminations by electrodialysis is with otherwise equal operation conditions dependent on the condition and structure of the deposit to be dialyzed. If the contaminations are incorporated in the crystalline lattice of the deposit, their quantitative separation is hardly, or practically not possible at all. There are 4 figures, 1 table and 13 references, 12 of which are Slavic.

ASSOCIATION: Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AN USSR - Moscow (Institut geokhimii i analiticheskoy khimii imeni V. I. Vernadskogo AN SSSR - Moskva).

SUBMITTED: November 5, 1956.

AVAILABLE: Library of Congress.

Card 2/2 1. Silicon acids-Contamination separation 2. Tungsten acids-Contamination separation 3. Electrodialyzers-Applications

POLUZEKTOV, Nikolay Sergeyevich; FARAFONOV, M.M., red.; SHPAK, Ye.G.,
tekhn.red.

[Methods of analysis by flame photometry] Metody analiza po
fotometrii plameni. Moskva, Gos.nauchno-tekhn.izd-vo khim.
lit-ry, 1959. 231 p. (MIRA 12:8)
(Photometry)

5(4), 5(2)

SOV/75-14-2-6/27

AUTHORS: Zarinsky, V. A., Frolkina, V. A., Farafonov, M. M.

TITLE: High-voltage Electrodialysis (Vysokovol'tnyy elektrodializ).
Communication 2. On the Separation of Impurities From Meta-
stannic Acid (Soobshcheniye 2. O vydelenii primesey iz meta-
olovyannoy kisloty)

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 2, pp 181-183
(USSR)

ABSTRACT: In the present paper the possibility of a quantitative separation of impurities from metastannic acid by electrodialysis is investigated. Precipitations of metastannic acid were used which contained impurities of the order of magnitude of 0.1%. Metastannic acid was produced by two different methods, both of them being described in this paper. According to method 1 (treatment of metallic tin with concentrated nitric acid) compact precipitations were obtained, according to the second method (precipitation of $\text{Sn}(\text{OH})_4$ with concentrated ammonia) loose, rather amorphous precipitations were formed. Electrodialysis was performed using cellophane membranes. The sample was introduced into the middle chamber of a three-chamber analyzer. The cathode chamber was filled with nitric acid ($10^{-1} - 10^{-3}$ N), the two other chambers with bidistilled water.

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SOV/75-14-2-6/27

High-voltage Electrodialysis. Communication 2. On the Separation of Impurities From Metastannic Acid

The experiments were continued until the margining of the minimum current intensity ($5\text{-}7 \mu\text{A}$) and the corresponding maximum voltage (2000 v). The samples taken from the cathode- and anode chamber in periodic intervals were analyzed photo-colorimetrically and polarographically. It was found that the separation of iron, copper, lead, and cadmium from gels of metastannic acid, produced according to method 2, takes place more easily because these gels have a stronger amorphous structure and more strongly dispersed particles than the gels obtained according to method 1. From amorphous precipitations, however, impurities cannot be separated quantitatively and not to the same extent. The per cent content of iron may be reduced by electrodialysis by a tenth power while the per cent content of the remaining metals (Cu, Pb, Cd) may be reduced by approximately half of a tenth power. Practically no separation of impurities from metastannic acid produced according to method 1 was observed. The authors also carried out experiments on the separation of unweighable amounts of radioactive lead (Th B) and antimony (^{125}Sb). The distribution of radioactivity in the anode- and cathode solution and in the

Card 2/3

High-voltage Electrodialysis.

SOV/75-14-2-6/27

Communication 2. On the Separation of Impurities From Metastannic Acid

ashes of the two membranes after the end of electrodialysis showed that unweighable amounts of lead and antimony cannot be separated from metastannic acid by electrodialysis. The results of spectrum analysis of samples of metastannic acid produced by both methods after the dialysis are summarized in a table; in a further table the distribution of radioactivity of Th B in the three chambers and the membranes after electrodialysis is given. The authors thank G. N. Bilimovich for the preparation of Th B. There are 2 tables and 2 Soviet references.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva
(Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the AS USSR, Moscow)

SUBMITTED: April 11, 1957

Card 3/3

BOROVIK-ROMANOVA, T.F.; YARAFONOV, M.M.

Use of an activated, alternating current arc with fulgurator for the determination of small quantities of sodium, potassium and lithium impurities in metallic rubidium and cesium. Trudy Kom. anal. khim. 12:322-330 '60.

(MIRA 13:8)

(Rubidium--Analysis) (Cesium--Analysis)
(Spectrum analysis)

05037

S/075/60/015/005/009/026/XX
B002/B056

24.3400

AUTHORS:

Vaynshteyn, E. Ye., Belyayev, Yu. I., and Farafonov, M. M.

TITLE:

Use of a "Sounding" Arc for the Control of the Process of
Feeding the Substance Into a d.c. Arc Plasma 21PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 5,
pp. 550 - 555

TEXT: The reproducibility of spectroanalytical determinations is also impaired in the case of electrical conditions which are carefully kept constant by the fact that fluctuations occur in the evaporation of the sample. The authors endeavored to control these fluctuations acoustically: Parallel to the d.c. arc an oscillatory circuit with C 8 - 18 μ F and L 0.1 - 0.25 mH was connected in series herewith; the frequency could be controlled between 50 and 20,000 cps. In order to enlarge the amplitude, a capacitor with 5 - 16 μ F was further connected parallel to the arc. (Fig.1). The acoustic vibrations were recorded by means of a tape recorder for purposes of control. A cathode ray oscilloscope was used to measure the intensity. By means of this method, the evaporation

Card 1/2

Farafonov, M. M.

8/078/61/006/005/001/015
B121/B206

AUTHORS: Kargin, V. A., Lastovskiy, R. P., Matveyeva, T. A.,
Ryabchikov, D. I., Zarinskij, V. A., and Farafonov, M. M.

TITLE: Purification of titanium dioxide and meta-titanic acid by the
method of high-voltage electrodialysis

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 5, 1961, 1017 - 1019

TEXT: A method of purifying titanium dioxide and meta-titanic acid by
high-voltage electrodialysis was devised. The laboratory set-up consists
of a d-c source (capacity 5 - 5.7 KW), an electrodialyzer with five
chambers of organic glass and control equipments for measuring amperage
and voltage. The electrode spacing is 10 - 12 cm. The titanium dioxide
to be purified is put into the central chamber of the electrodialyzer in
the form of a suspension. Purification from the impurities Mg, Fe, Al,
Ca, Sb, Pb, Sn, Cd, Bi, and Cu is carried out in an ionic current of Cl⁻
and SO₄²⁻ at maximum electrode potential. To remove SiO₂ from titanium di-
oxide, a dilute KOH solution is added in the anode chamber of the dialyzer.

Card 1/3

2/

Purification of titanium ...

5/076/61/006/005/001/015
B121/B208

ASSOCIATION: Institut chistykh khimicheskikh reaktivov
(Institute of Pure Chemical Reagents)
Institut geokhimii i analiticheskoy khimii im. V. I.
Vernadskogo Akademii nauk SSSR
(Institute of Geochemistry and Analytical Chemistry Imeni
V. I. Vernadskiy of the Academy of Sciences USSR)

SUBMITTED: March 17, 1960

Card 3/3

S/078/61/006/005/001/015
B121/B208

Purification of titanium ...

which reduces the SiO_2 content from 0,3 to 0,05 %. Traces of Hf, Nb, and Ta are separated from TiO_2 by conversion to oxalate complexes. Purification was examined by means of the quartz spectrographs of the MCh-22 (ISP-22) or MCh-28 (ISP-28)-type. The spectrographic method for the determination of Nb, Ta, Hf, and Cr is precisely described. Titanium dioxide purified by high-voltage electrodialysis, and meta-titanic acid have the following contents of impurities: Zr, Hf, Nb, Ta less than $1 \cdot 10^{-3} \%$, Mg - $5 \cdot 10^{-4} \%$, Si - $1 \cdot 10^{-3} \%$, Fe - less than $1 \cdot 10^{-4} \%$, Al - $3 \cdot 10^{-3} \%$, Ca - less than $1 \cdot 10^{-4} \%$, Sb - less than $1 \cdot 10^{-4} \%$, P - less than $1 \cdot 10^{-3} \%$, Cu - less than $1 \cdot 10^{-4} \%$, Sn - less than $1 \cdot 10^{-4} \%$, Cd - less than $1 \cdot 10^{-4} \%$, Pb - less than $1 \cdot 10^{-4} \%$. There are 4 tables and 6 references: 5 Soviet-block and 1 non-Soviet-block.

Card 2/3

BOROVIK-ROMANOVA, T.F.; BELYAYEV, Yu.I.; KUTSENKO, Yu.I.; PAVLENKO, L.I.; SAVINOVA, Ye.N.; FARAEONOV, M.M.; VAYNSSTEYN, E.Ye., prof., doktor khim. natuk, otv. red.; DRAGUNOV, E.S., red. izd-va; ASTAF'YEVA, G.A., tekhn. red.

[Spectral determination of rare and dispersed elements in minerals rocks, soils, plants, and natural waters] Spektral'noe opredelenie redkih i rasseiannykh elementov; v mineralakh i porodakh, pochvakh, rasteniiakh i prirodnykh vodakh. [By] T.F. Borovik-Romanova i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 239 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut geokhimii.
(Spectrum analysis)